Introduction to NoSql Cassandra Hbase MongoDB Couchbase

Description

Today, companies collect vast amounts of data from a wide variety of sources. This information does not always fit into traditional relational databases. To address this challenge, NoSQL databases provide a modern and efficient alternative. This training, focused on Cassandra NoSql, MongoDB, HBase, and Couchbase, offers a clear understanding of the essential technologies needed to manage unstructured data.

Why train on Cassandra NoSql and NoSQL databases

Cassandra NoSql stands out for its ability to handle massive volumes of data distributed across multiple nodes. HBase, MongoDB, and Couchbase complement this ecosystem by bringing their own specific strengths. Understanding their differences and knowing how to use them according to business needs has become essential for architects, developers, and administrators. This training emphasizes practical application and the understanding of key concepts. You will also discover the importance of the PAC theorem, sharding, and possible integrations with Hive or Java.

Course Content
Module 1: Introduction to NoSQL Module 2: Understand Cassandra, MongoDB and HBase Module 3: Working with Cassandra Module 4: Integrate Hive & Java with HBase Module 5: Working with MongoDb Module 6: Working with Couchbase
Lab / Exercises

- You will work on real world projects in NoSQL data modeling, querying, indexing, searching, Hadoop integration, CAP theorem, MongoDB sharding, HBase API, HBase Shell. Work on real world industry projects

Documentation

- Digital courseware included

Participant profiles

- Software architects
- System administrators
- Database developers
- Technical project managers

Prerequisites

- No prerequisites

Objectives

- Learn about the NoSQL scope and its concepts
- Understand Cassandra, MongoDB and HBase
- Learn about NoSQL database and CAP Theorem
- Get to know Sharding in MongoDB
- Learn about HBase Shell and HBase API

- Integration of HBase and Hive
- Get to know Couchbase DB
- Work with Single node and Multi node clusters
- Learn about data management
- Work with unstructured data like video, image, log data

Niveau
Fondamental
Classroom Registration Price (CHF)
3800
Virtual Classroom Registration Price (CHF)
3550
Duration (in Days)
5
Reference
NSQ-01